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(54) RECOVERING METHOD OF CO₂ AND H₂ FROM CONVERTER GAS

(57) Abstract:

PURPOSE: To increase utilization by treating converter gas with a pressure swing adsorber (PSA), treating again with a PSA installed in series, and supplying the obtained H₂ to a fuel cell to generate electric power and recovering exhaust heat as steam.

CONSTITUTION: LD converter gas is modified to H₂, and treated with a pressure swing adsorber (PSA) 3 through a absorbin tower 1, and offgas RH2 which contains other

gasses in addition to H₂ is stored in a holder 4. The offgas RH₂ is treated with a PSA 6 installed in series to obtain H₂. The H₂ obtained is supplied to a negative electrode 13 of a fuel cell 15 and reacted with oxygen in a positive electrode 14 to generate electric power. Exhaust gasses from the negative electrode 13 and the positive electrode 14 are supplied to a combustor 18 to completely burn and exhaust heat is recovered in a boiler 19. Therefore, electric power, steam, and fuel gas can be obtained from offgas from purification equipment of converter gas, and utilization is increased.

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